EDWIN M. CRUZ

https://edwincruz.com ▪ New York, NY ▪ ecruz165@yahoo.com ▪ (917) 626-7137

SUMMARY

I am a Lead Software Engineer delivering cloud solutions using Java and Typescript on the AWS Platform.

I am an enthusiastic architect and developer seeking complex projects that leverage my Java and Typescript foundation to bring next-generation platforms to life. Skills range across several areas: software design, CI/CD pipeline design, strategic planning, project management, system integration, information architecture, user-experience design, and extensive knowledge of frontend and backend technologies and frameworks.

Past solutions use Multithreading design patterns, Messaging, Batching, and RESTful APIs implemented with core Java, Spring Boot, Spring Integration/Batch, Hibernate, and Ehcache.

Most recent software projects leverage Angular and Spring Framework on the AWS platform: AWS CDK, AWS Fargate, AWS Lambda, AWS Gateway, Amazon Aurora RDS, S3, SQS, and SES. Additional APIs/frameworks used recently include Zoom API, Twilio API, Mailchimp API, AirTable API, and JotForm API.

DEVELOPMENT TOOLS

Atlassian Jira, JetBrains IntelliJ, Visual Studio Code, Lucid Charts, Balsamiq Mockup Wireframes, Postman, Adobe Creative Suite Master...

REPRESENTATIVE ACCOMPLISHMENTS

Recent

Inspiring Young Minds (since April 2020)
https://iymscholars.org
Solutions Architect / Senior Full Stack Developer (Volunteer / Venture)

I started as a tech advisor and then became a sole contributor as a full-time volunteer for IYM, a non-profit organization. Enabled the organization to pivot to support their community via a custom-built platform and further enhanced automation needed for critical business processes by integrating various third-party APIs. Matured into a venture using IYM as a client/partner to identify a minimum viable product for a SaaS product.

- Developing Portal and Microservices backend for the organization on the AWS Cloud using Google Angular for frontend and Spring framework backend.
- Integrated various REST API into the portal: Zoom, Twilio, MailChimp, Jotform, Airtable, and PayPal.
- Conducted business process mapping, stakeholder analysis sessions, and wireframed prominent use cases.
- Designed and developed a business supporting database with a RESTful interface.
- Implemented UAA solution based on OAuth/OpenID Spring Security which integrates with Azure AD for staff accounts.

Kinesso / IPG Mediabrands (April 2019 - March 2020)
Java Tech Lead (Contract via Motion Recruitment)

Lead engineer working on Angular/Java Full Stack development for two major SaaS products. Products have both UI and API exposed to customers. Worked closely with product team supporting and supplying technical support with the planning of new features. Responsible for a group of ten offshore resources to deliver quality software in two-week sprints. Produced tech road maps of non-functional requirements and tech debt incurred. Tech stack included Angular, Spring boot, MySQL, Redis, and Docker on the Amazon Web Services platform. Tools used in addition to tech stack: Slack, Sonar, JFrog Artifactory, Jenkins, Test Rails, AppDynamics, Atlassian Jira & Confluence, GitHub, Splunk, Intellij, JProbe

Freelance and Philanthropic Activities

Technical Specialist (since August 2017)
LIVE CITY BASKETBALL: http://livecitybasketball.com/
I developed a Spring-based web application that integrates with a RESTful third-party system named Exposure Events and PayPal Standard API.

Vice President / Technical Specialist (since Sept 2014)
UNITED PROSPECTS: http://www.unitedprospects.org/
I co-founded a youth program offering a competitive basketball team, mentorship, and volunteer opportunities. In addition, I designed and developed a website with a registration system using Spring Security, Spring MVC, and Material design.

FUTURE OPERATIONS SYSTEMS
VP / PROJECT LEAD / JAVA DEVELOPER / SOLUTIONS ARCHITECT

Project Lead for development of standalone and web applications leveraging best practiced architectural patterns and frameworks. Led the adoption of agile practices and assisted in setting standards for development, testing, and documentation. Responsible for resolving Level 2/3 Support issues raised by Front Office and Operations end-users, producing requirements, and conducting code reviews for work produced by the offshore team.

Non-US Futures Trade-flows: Led design and development of continuous flows to clear non-US future trades. (Spring Framework, Spring Boot, Spring Integration, Bootstrap, Thymeleaf)

DPS Web Services: Led design and development of web services interface to the Deliveries Payments System. (Spring Boot, Apache CXF, RESTful HTTP)

ETD Monitor Server/Probes: Designed and developed a framework and java server process that connects to various implemented probes that transform collected notifications into events in a Dashboard. (Core Java, Threads, JMX, Groovy, Spring)

Commission Allocation Manager (COBRA): Delivered a user interface that manages the allocation rules for commissions allocated to traders. In addition to being a hands-on contributor, I also Led a few developers. (Java, GWT, Spring Framework, SmartGWT)

EXPRO Dashboard: Led the design of EXPRO Dashboard. Primary responsibility included defining User Interface components, and their functionality gathered from Level One Support and other stakeholder end users. Led the mentorship and code review of an offshore team to ramp up offshore to team GWT to support ongoing development. (Java, GWT, Spring Framework, SmartGWT)

EXPRO Bus: Led the design and development of EXPRO Messaging Bus. Primary responsibility included defining the messaging format and building message adapters for publishers/subscriber systems. In addition, I managed and mentored an offshore java team that assisted in the development and testing of the platform. (Java, Spring Framework, Hibernate, Spring Integration/ Batch)

Post Clearing- GMI Real-time Message Feeds: Developed a custom standalone application that translates and enriches real-time GMIRTGF1 EBCDIC records to DMZ databases. (Solaris, Java, Threads, Spring Framework, Hibernate, Sybase ASE)

Post Clearing- FIXML Trade Flow Processing System: Developed a custom standalone application that interfaced with exchanges' Clearing APIs for CME, NYMEX, and ICE (NYBOT). This project matured into a Common Framework, which provided the applications with adapters to support different message sources, including Message Queues, Web Services, and files. (Solaris, Java, Spring Framework, Hibernate, Sybase ASE)

Back Office Web Portal: Led development of web application that enabled Operations staff to search customer Futures and Commodity trades and perform other back-office data maintenance. (Solaris, Java, Adobe JRun, Struts, Spring Framework, Spring Security, Sybase ASE)

GICAP Operation Portal: Participated in a special project team on an extra-curricular effort to recruit and build out a portal application that would become a single-entry point for all applications for all of Operations under GICAP initiative. Role required many face-to-face meetings with senior management and technology teams. In addition, lead development of the UI and managed portal construction. (BEA WebLogic Portal, BEA WebLogic AS Server, Oracle Database, Borland JBuilder Enterprise, Embarcadero DBArtisan Version, Macromedia Dreamweaver Mx, Rational ClearCase, Sparx Systems Enterprise Architect)

VERITAS RESEARCH, INC.
CRT TOOLBOX – Developed a custom standalone commercial PDA application to facilitate clinical testing targeted to run on PDA's running Pocket PC and Palm OS platform.

SPECIAL EDUCATION ASSOCIATES
Custom Timesheet Application – Developed custom timesheet application utilizing Pumatech's Enterprise Intellisync Server and RAD tools. Performed all requirement gathering, designing, developing, testing and refactoring duties in a full software lifecycle.

ACS STATE AND LOCAL SOLUTIONS
Ohio Kidstar® System Release 2 – Developer for the presentation layer during the construction phase of web application.

STYECOUNCIL
stylecouncil.com – Led the construction of website.

SCREENVISION
sales.screenvision.com – Developed an on-demand PDF document-rendering engine for a Proposal Generation System using xml technologies on a Microsoft platform.

CITIBANK
C2it.com – Led the design and development of the XML-based rendering engine for the presentation layer of a prototype application that was designed with a model view controller application framework.

PROCTER & GAMBLE
Thermacare.com – Assisted in the construction of web site.

CPA2BIZ. / AICPA
Cpa2biz.com – Developer for a web application, a submodule of a system, that was responsible for the automatic integration of third-party XML formatted content.

MCGRAW HILL COMPANIES
Construction.com – Led the development of website portal. Designed the development environment and defined maintenance procedures.

MIBRARY
Mibrary FRD & Prototype – Led the site build of a prototype that supported Mibrary's business model. Delivered a front-end system and wireless prototype.

Mibrary Digital Rights Management – Led the development of wireframes for devices and windows client component of the application. Also, led the development of the Palm Application that interfaced with the desktop client.

YOLLO
Yollo.de – Led the development for the user management submodule for the system. Also, researched and helped decide several related technologies for application profiling, session management under load balanced topologies that the system used.

EDUCATION
Bachelor of Science in Physics, SUNY at Oswego